

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S6	1811	(715/513).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/06/23 10:16
S13 4	1295	(709/246).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/06/21 10:39
S13 5	36	715/501	US-PGPUB; USPAT	OR	ON	2005/06/21 10:40
S14 3	438	(web with page with source with document)	US-PGPUB; USPAT	OR	ON	2005/06/21 13:44
S14 4	20	(web\$page with source with document)	US-PGPUB; USPAT	OR	ON	2005/06/21 13:44
S14 5	449	S143 or S144	US-PGPUB; USPAT	OR	ON	2005/06/21 13:44
S14 6	12	S145 and (command with string)	US-PGPUB; USPAT	OR	ON	2005/06/21 13:44
S14 7	3	S145 and (type with parameter with string)	US-PGPUB; USPAT	OR	ON	2005/06/21 13:45
S14 8	1	S145 and (element with parameter with string)	US-PGPUB; USPAT	OR	ON	2005/06/21 13:45
S14 9	3	S147 or S148	US-PGPUB; USPAT	OR	ON	2005/06/21 14:15
S15 1	505	retriev\$4 with dynamic\$4 with content	US-PGPUB; USPAT	OR	ON	2005/06/21 14:15
S15 2	507	retriev\$4 with dynamic\$4 with (web\$page or content)	US-PGPUB; USPAT	OR	ON	2005/06/21 14:15
S15 3	199	retriev\$4 with dynamic\$4 adj2 (web\$page or content)	US-PGPUB; USPAT	OR	ON	2005/06/21 14:15
S15 4	50	S153 and (sav\$4 with (web\$page or content))	US-PGPUB; USPAT	OR	ON	2005/06/21 14:20
S15 5	15	S154 and (retriev\$4 with (web\$page or content) with request\$4)	US-PGPUB; USPAT	OR	ON	2005/06/21 14:16
S15 6	6	off\$line with dynamic\$4 with content with (sav\$4 or stor\$4)	US-PGPUB; USPAT	OR	ON	2005/06/21 14:23
S15 7	3	S151 and S156	US-PGPUB; USPAT	OR	ON	2005/06/21 14:22
S15 8	211	user with view\$4 with content with dynamic\$4	US-PGPUB; USPAT	OR	ON	2005/06/21 14:23
S16 0	62	off\$line with dynamic\$4 with (sav\$4 or stor\$4)	US-PGPUB; USPAT	OR	ON	2005/06/21 14:43
S16 2	383	user with request\$4 with content with dynamic\$4	US-PGPUB; USPAT	OR	ON	2005/06/21 14:23
S16 3	2	S160 and S162	US-PGPUB; USPAT	OR	ON	2005/06/21 14:23
S16 4	977	string with (element or type) with parameter	US-PGPUB; USPAT	OR	ON	2005/06/21 14:46

S16 5	776	retriev\$4 with string with (element or type)	US-PGPUB; USPAT	OR	ON	2005/06/21 14:47
S16 6	2050	(715/513).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/06/21 14:44
S16 7	45	S164 and S165	US-PGPUB; USPAT	OR	ON	2005/06/21 14:44
S17 0	131	modif\$5 with string with parameter	US-PGPUB; USPAT	OR	ON	2005/06/21 14:47
S17 1	3	S167 and S170	US-PGPUB; USPAT	OR	ON	2005/06/21 14:46
S17 4	2362	command with (element or type) with parameter	US-PGPUB; USPAT	OR	ON	2005/06/21 14:46
S17 5	1884	retriev\$4 with (base or string) with (element or type)	US-PGPUB; USPAT	OR	ON	2005/06/21 14:47
S17 6	1210	modif\$5 with (base or string) with parameter	US-PGPUB; USPAT	OR	ON	2005/06/21 14:47
S17 7	2	S174 and S175 and S176	US-PGPUB; USPAT	OR	ON	2005/06/21 14:49
S17 9	28365	updat\$4 with (web\$page or content or (web adj page))	US-PGPUB; USPAT	OR	ON	2005/06/21 14:49
S18 0	17151	replac\$4 with (web\$page or content or (web adj page))	US-PGPUB; USPAT	OR	ON	2005/06/21 14:49
S18 1	126515	stor\$4 with (web\$page or content or (web adj page))	US-PGPUB; USPAT	OR	ON	2005/06/21 14:50
S18 2	12964	user with request\$4 with (web\$page or content or (web adj page))	US-PGPUB; USPAT	OR	ON	2005/06/21 14:50
S18 3	533	S179 and S180 and S181 and S182	US-PGPUB; USPAT	OR	ON	2005/06/21 14:50
S18 4	145	S183 and (dynamic\$4 adj2 (content or web\$page or (web adj page)))	US-PGPUB; USPAT	OR	ON	2005/06/21 14:51
S18 5	15	S184 and offline	US-PGPUB; USPAT	OR	ON	2005/06/21 15:48
S18 6	2	(updat\$4 or replac\$4) with dynamic\$4 with content with offlin\$4	US-PGPUB; USPAT	OR	ON	2005/06/21 15:49
S18 7	2	(updat\$4 or replac\$4) with dynamic\$4 with content with off\$lin\$4	US-PGPUB; USPAT	OR	ON	2005/06/21 15:52
S18 8	6	dynamic\$4 with content with off\$line with (stor\$4 or sav\$4)	US-PGPUB; USPAT	OR	ON	2005/06/21 15:49
S18 9	41053	(updat\$4 or replac\$4) with content	US-PGPUB; USPAT	OR	ON	2005/06/21 15:52
S19 0	2	S188 and S189	US-PGPUB; USPAT	OR	ON	2005/06/21 15:52
S19 2	2	S190 not S186	US-PGPUB; USPAT	OR	ON	2005/06/22 16:24
S19 6	1032	(sav\$4 or stor\$4) with document with (web\$page or (web adj page))	US-PGPUB; USPAT	OR	ON	2005/06/22 16:27

S19 7	1041	server with (display\$4 or retriev\$4) with (sav\$4 or stor\$4) with (web\$page or (web adj page))	US-PGPUB; USPAT	OR	ON	2005/06/22 16:28
S19 8	160	S196 and S197	US-PGPUB; USPAT	OR	ON	2005/06/22 16:28
S19 9	106	S198 and dynamic\$4	US-PGPUB; USPAT	OR	ON	2005/06/22 16:28
S20 0	39	server with (display\$4 or retriev\$4) with dynamic\$4 with (sav\$4 or stor\$4) with (web\$page or (web adj page))	US-PGPUB; USPAT	OR	ON	2005/06/22 16:28
S20 1	3	S196 and S200	US-PGPUB; USPAT	OR	ON	2005/06/22 16:28

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Relevance scale **1 Ready for prime time: pre-generation of web pages in TIScover**

Birgit Pröll, Heinrich Starck, Werner Retschitzegger, Harald Sighart

November 1999 **Proceedings of the eighth international conference on Information and knowledge management**Full text available:  [pdf\(974.45 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In large data- and access-intensive web sites, efficient and reliable access is hard to achieve. This situation gets even worse for web sites providing precise structured query facilities and requiring topicality of the presented information even in face of a highly dynamic content. The achievement of these partly conflicting goals is strongly influenced by the approach chosen for page generation, ranging from composing a web page upon a user's request to its generation in advance. The offi ...

Keywords: WWW, optimization, page generation, reliability, tourism information system

2 Tools and approaches for developing data-intensive Web applications: a survey

Piero Fraternali

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3Full text available:  [pdf\(524.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

Keywords: HTML, Intranet, WWW, application, development

3 Server performance and scalability: A method for transparent admission control and request scheduling in e-commerce web sites

Sameh Elnikety, Erich Nahum, John Tracey, Willy Zwaenepoel

May 2004 **Proceedings of the 13th international conference on World Wide Web**Full text available:  [pdf\(179.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents a method for admission control and request scheduling for multiply-tiered e-commerce Web sites, achieving both stable behavior during overload and improved response times. Our method externally observes execution costs of requests online, distinguishing different request types, and performs overload protection and preferential scheduling using relatively simple measurements and a straight forward control mechanism. Unlike previous proposals, which require extensive changes to ...

Keywords: admission control, dynamic web content, load control, request scheduling, web servers

- 4 [Links for a better web: Refinement of TF-IDF schemes for web pages using their hyperlinked neighboring pages](#)

Kazunari Sugiyama, Kenji Hatano, Masatoshi Yoshikawa, Shunsuke Uemura

August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia**

Full text available:  pdf(211.25 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In IR (information retrieval) systems based on the vector space model, the TF-IDF scheme is widely used to characterize documents. However, in the case of documents with hyperlink structures such as Web pages, it is necessary to develop a technique for representing the contents of Web pages more accurately by exploiting the contents of their hyperlinked neighboring pages. In this paper, we first propose several approaches to refining the TF-IDF scheme for a target Web page by using the contents ...

Keywords: TF-IDF scheme, WWW, hyperlink, information retrieval

- 5 [Web engineering with semantic annotation: Accessibility: a Web engineering approach](#)

Peter Plessers, Sven Casteleyn, Yeliz Yesilada, Olga De Troyer, Robert Stevens, Simon Harper, Carole Goble

May 2005 **Proceedings of the 14th international conference on World Wide Web**

Full text available:  pdf(304.51 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Currently, the vast majority of web sites do not support accessibility for visually impaired users. Usually, these users have to rely on screen readers: applications that sequentially read the content of a web page in audio. Unfortunately, screen readers are not able to detect the meaning of the different page objects, and thus the implicit semantic knowledge conveyed in the presentation of the page is lost. One approach described in literature to tackle this problem, is the Dante approach, whic ...

Keywords: Web engineering, accessibility, semantic Web, visual impairment

- 6 [A multilevel analysis of sociability, usability, and community dynamics in an online health community](#)

Diane Maloney-Krichmar, Jenny Preece

June 2005 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 12 Issue 2

Full text available:  pdf(735.72 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The aim of this research is to develop an in-depth understanding of the dynamics of online group interaction and the relationship between the participation in an online community and an individual's off-line life. The 2½-year study of a thriving online health support community (Bob's ACL WWWBoard) used a broad fieldwork approach, guided by the ethnographic research techniques of observation, interviewing, and archival research in

combination with analysis of the group's dynamics during a on ...

Keywords: Online community, electronic support groups, health, online group dynamics, online social support, patient support community, self-help via the Internet, sociability, usability

7 Measuring and characterizing end-to-end Internet service performance

Ludmila Cherkasova, Yun Fu, Wenting Tang, Amin Vahdat

November 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 4

Full text available:  pdf(1.46 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Fundamental to the design of reliable, high-performance network services is an understanding of the performance characteristics of the service as perceived by the client population as a whole. Understanding and measuring such end-to-end service performance is a challenging task. Current techniques include periodic sampling of service characteristics from strategic locations in the network and instrumenting Web pages with code that reports client-perceived latency back to a performance server. Li ...

Keywords: End-to-end service performance, QoS, network packet traces, passive monitoring, reconstruction of web page composition, web site performance

8 Model-driven development of Web applications: the AutoWeb system

Piero Fraternali, Paolo Paolini

October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Full text available:  pdf(6.94 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

9 Page replacement for general caching problems

Susanne Albers, Sanjeev Arora, Sanjeev Khanna

January 1999 **Proceedings of the tenth annual ACM-SIAM symposium on Discrete algorithms**

Full text available:  pdf(1.23 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10 Optimizing encoding: Optimization of html automatically generated by wysiwyg programs

Jacqueline Spiesser, Les Kitchen

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available:  pdf(129.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Automatically generated HTML, as produced by WYSIWYG programs, typically contains much repetitive and unnecessary markup. This paper identifies aspects of such HTML that may be altered while leaving a semantically equivalent document, and proposes techniques

to achieve optimizing modifications. These techniques include attribute re-arrangement via dynamic programming, the use of style classes, and dead-coderemoval. These techniques produce documents as small as 33% of original size. The size decre ...

Keywords: dynamic programming, haskell, html optimization, wysiwyg

11 Applications: YouServ: a web-hosting and content sharing tool for the masses

Roberto J. Bayardo Jr., Rakesh Agrawal, Daniel Gruhl, Amit Somani

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Full text available: [!\[\]\(642aa997563f9a325b310230bb5078b7_img.jpg\) pdf\(238.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

YouServ is a system that allows its users to pool existing desktop computing resources for *high availability* web hosting and file sharing. By exploiting standard web and internet protocols (e.g. HTTP and DNS), YouServ does not require those who access YouServ-published content to install special purpose software. Because it requires minimal server-side resources and administration, YouServ can be provided at a very low cost. We describe the design, implementation, and a successful intranet ...

Keywords: decentralized systems, p2p, peer-to-peer networks, web hosting

12 Indexing and querying: Three-level caching for efficient query processing in large Web search engines

Xiaohui Long, Torsten Suel

May 2005 **Proceedings of the 14th international conference on World Wide Web**

Full text available: [!\[\]\(0d7ca0919e6c47bbd874bfa0189fe22e_img.jpg\) pdf\(243.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Large web search engines have to answer thousands of queries per second with interactive response times. Due to the sizes of the data sets involved, often in the range of multiple terabytes, a single query may require the processing of hundreds of megabytes or more of index data. To keep up with this immense workload, large search engines employ clusters of hundreds or thousands of machines, and a number of techniques such as caching, index compression, and index and query pruning are used to im ...

Keywords: Web search, caching, inverted index

13 Summary-based routing for content-based event distribution networks

Yi-Min Wang, Lili Qiu, Chad Verbowski, Dimitris Achlioptas, Gautam Das, Paul Larson
October 2004 **ACM SIGCOMM Computer Communication Review**, Volume 34 Issue 5

Full text available: [!\[\]\(df47d6bec273bbb8b349135fff3a20f7_img.jpg\) pdf\(2.82 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Providing scalable distributed Web-based eventing services has been an important research topic. It is desirable to have an effective mechanism for the servers to summarize their filters for in-network preprocessing in order to optimize system performance. In this paper, we propose a summary-based routing mechanism and introduce the notion of imprecise summaries to provide a trade-off between routing overhead and event traffic. Our system uses similarity-based filter clustering to reduce overall ...

14 Web mining for web personalization

Magdalini Eirinaki, Michalis Vazirgiannis

February 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 1

Full text available: [!\[\]\(488d36215f31304317ffb20d512ebb61_img.jpg\) pdf\(293.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

terms, review

Web personalization is the process of customizing a Web site to the needs of specific users, taking advantage of the knowledge acquired from the analysis of the user's navigational behavior (usage data) in correlation with other information collected in the Web context, namely, structure, content, and user profile data. Due to the explosive growth of the Web, the domain of Web personalization has gained great momentum both in the research and commercial areas. In this article we present a survey ...

Keywords: WWW, Web personalization, Web usage mining, user profiling

15 Survey articles: Web usage mining: discovery and applications of usage patterns from Web data 

Jaideep Srivastava, Robert Cooley, Mukund Deshpande, Pang-Ning Tan
January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2

Full text available:  pdf(1.44 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Web usage mining is the application of data mining techniques to discover usage patterns from Web data, in order to understand and better serve the needs of Web-based applications. Web usage mining consists of three phases, namely *preprocessing*, *pattern discovery*, and *pattern analysis*. This paper describes each of these phases in detail. Given its application potential, Web usage mining has seen a rapid increase in interest, from both the research and practice communities. This pap ...

Keywords: data mining, web usage mining, world wide web

16 Link-based ranking 1: Scaling personalized web search 

Glen Jeh, Jennifer Widom
May 2003 **Proceedings of the 12th international conference on World Wide Web**

Full text available:  pdf(158.18 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Recent web search techniques augment traditional text matching with a global notion of "importance" based on the linkage structure of the web, such as in Google's PageRank algorithm. For more refined searches, this global notion of importance can be specialized to create personalized views of importance--for example, importance scores can be biased according to a user-specified set of initially-interesting pages. Computing and storing all possible personalized views in advance is impractical, as ...

Keywords: PageRank, web search

17 Devirtualizable virtual machines enabling general, single-node, online maintenance 

David E. Lowell, Yasushi Saito, Eileen J. Samberg
October 2004 **Proceedings of the 11th international conference on Architectural support for programming languages and operating systems**, Volume 32 , 38 , 39 Issue 5 , 5 , 11

Full text available:  pdf(174.01 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Maintenance is the dominant source of downtime at high availability sites. Unfortunately, the dominant mechanism for reducing this downtime, cluster rolling upgrade, has two shortcomings that have prevented its broad acceptance. First, cluster-style maintenance over many nodes is typically performed a few nodes at a time, making maintenance slow and often impractical. Second, cluster-style maintenance does not work on single-node systems, despite the fact that their unavailability during mainte ...

Keywords: availability, online maintenance, planned downtime, virtual machines

18 Caching I: New results on web caching with request reordering

Susanne Albers

June 2004 **Proceedings of the sixteenth annual ACM symposium on Parallelism in algorithms and architectures**

Full text available: [pdf\(186.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We study web caching with request reordering. The goal is to maintain a cache of web documents so that a sequence of requests can be served at low cost. To improve cache hit rates, a limited reordering of requests is allowed. Feder et al. [6], who recently introduced this problem, considered caches of size 1, i.e. a cache can store one document. They presented an offline algorithm based on dynamic programming as well as online algorithms that achieve constant factor competitive ratios. For arbit ...

Keywords: approximation, batch, cache, competitive, document, offline, online

19 A serializability violation detector for shared-memory server programs

Min Xu, Rastislav Bodík, Mark D. Hill

May 2005 **ACM SIGPLAN Notices , Proceedings of the 2005 ACM SIGPLAN conference on Programming language design and implementation**, Volume 40 Issue 6

Full text available: [pdf\(326.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We aim to improve reliability of multithreaded programs by proposing a dynamic detector that detects potentially erroneous program executions and their causes. We design and evaluate a *Serializability Violation Detector* (SVD) that has two unique goals: (I) triggering automatic recovery from erroneous executions using backward error recovery (BER), or simply alerting users that a software error may have occurred; and (II) helping debug programs by revealing causes of error symptoms.Two pro ...

Keywords: multithreading, race conditions, serializability

20 The cache location problem

P. Krishnan, Danny Raz, Yuval Shavit

October 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 5

Full text available: [pdf\(470.11 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: location problem, mirror placement, transparent cache

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